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Claims

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5 1. A thermally conductive inlay mat (3) for
electrical and electronic appliances, having a
base body (5) of simple sheet-like geometry, an
underside (4) of the base body being intended to
be in contact with the outer wall of the appliance
and a top side of the base body being intended to
be in contact with the heat source inside the
10 appliance.

15 2. The inlay mat as claimed in claim 1, wherein the
mat (3) comprises modified hydrocarbon resin or a
silicone composite sheet.

20 3. The inlay mat as claimed in claim 1, wherein the
mat (3) comprises electrically insulating
material, in particular homogeneously comprises
synthetic resin.

20 4. The inlay mat as claimed in claim 1, wherein the
thickness of the mat (3) is at least 1 mm.

25 5. The inlay mat as claimed in claim 1, wherein the
underside (4) is smooth, while the top side has a
height-compensating structure.

30 6. The inlay mat as claimed in claim 5, wherein the
height-compensating structure comprises raised
lamellae (6).

7. The inlay mat as claimed in claim 1, wherein the
mat (3) has a sticky surface.

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35 8. An electrical or electronic appliance (10),
comprising a housing with wall parts (12, 13, 14)
and electrical and/or electronic components which
are arranged therein and act as a heat source,
wherein a thermally conductive mat (3) as claimed

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~~in one of the preceding claims~~ is inserted between the heat source and an adjoining wall part of the housing.

- 5 9. The appliance as claimed in claim 8, wherein at least some of the components are mounted on a circuit board (15).
- 10 10. The appliance as claimed in claim 8, wherein a film (7) with a high degree of electrical insulation is additionally inserted between mat (3) and adjoining wall part (12).
- 15 11. The appliance as claimed in claim 8, wherein the adjoining wall part, which is in particular the base plate (12), itself has good thermal conductivity and comprises in particular metal.